LU2B12BL

Reversing power base, TeSys Ultra, 3P, 1NO + 1NC, 12A, 690VAC, 24VDC coil



Main Range **TeSys** Product name TeSys Ultra LU2B Device short name Product or component Reversing power base type Device application Motor control Motor protection Control unit LUC.X6BL Product compatibility Control unit LUC.1XBL Control unit LUC.05BL Control unit LUC.12BL 3P Poles description Suitability for isolation Yes [Ue] rated operational 690 V AC for power circuit voltage 40...60 Hz Network frequency [Ith] conventional free 12 A air thermal current 12 A at <= 440 V [le] rated operational 12 A at 500 V current 9 A at 690 V Utilisation category AC-43 AC-44 AC-41 50 KA at 230 V [lcs] rated service 50 KA at 440 V breaking capacity 10 KA at 500 V 4 kA at 690 V 1 NO + 1 NC Auxiliary contact composition Auxiliary contacts type Type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1 Type mirror contact (1 NC) conforming to IEC 60947-1 24 V DC [Uc] control circuit voltage Control circuit voltage 14.5 V DC drop-out

20...27 V DC in operation

Complementary

Complementary	
Typical current consumption	120 MA at 24 V DC I maximum while closing
	120 mA at 24 V DC I rms sealed
Heat dissipation	2 W for control circuit with LUCA, LUCB, LUCC, LUCD
	1.7 W for control circuit with LUCM
Inrush restraint duration	15 ms DC
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO
	13849-1
	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
	13849-1
Operating time	150 ms with change of direction for power circuit
	75 ms without change of direction for power circuit
	35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit
	75 ms closing with LUCM for control circuit
	70 ms closing with LUCA, LUCB, LUCC, LUCD for control circuit
Machaniael durability	
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h

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This documentation is not intended as a substitute for and is not to be used for determining suitability or these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

limits

Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]ASEFA[
Standards	EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier
[Ui] rated insulation voltage	690 V conforming to IEC 60947-6-2 (pollution degree 3) 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-6-2
Safe separation of circuit	400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 appendix N
Fixing mode	Clipped (DIN rail) Screw-fixed (plate)
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 0.341.5 mm² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 0.751.5 mm² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.751.5 mm² rigid Control circuit: screw clamp terminals 2 cable(s) 0.341.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 0.751.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 0.751.5 mm² rigid Power circuit: screw clamp terminals 1 cable(s) 110 mm² rigid Power circuit: screw clamp terminals 1 cable(s) 16 mm² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible without cable end
Tightening torque	Control circuit: 0.81.2 N.m flat screwdriver 5 mm Control circuit: 0.81.2 N.m Philips no 1 screwdriver 5 mm Power circuit: 1.92.5 N.m flat screwdriver 6 mm Power circuit: 1.92.5 N.m Philips No 2 screwdriver 6 mm Power circuit: 1.92.5 N.m pozidriv No 2 screwdriver 6 mm
Width	45 mm
Height	224 mm
Depth	126 mm
Net weight	1.27 kg
Compatibility code	LU2B

Environment

IP degree of protection	IP20 conforming to IEC 60947-1 (front panel and wired terminals) IP20 conforming to IEC 60947-1 (other faces) IP40 conforming to IEC 60947-1 (front panel outside connection zone)
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-2560 °C with LUCM -2570 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-4085 °C
Fire resistance	960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C conforming to IEC 60695-2-12
Operating altitude	2000 m
Shock resistance	10 gn power poles open conforming to IEC 60068-2-27 15 gn power poles closed conforming to IEC 60068-2-27
Vibration resistance	2 gn (f= 5300 Hz) power poles open conforming to IEC 60068-2-27 4 gn (f= 5300 Hz) power poles closed conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 KV level 3 in open air conforming to IEC 61000-4-2 8 kV level 4 on contact conforming to IEC 61000-4-2
Resistance to fast transients	2 KV class 3 serial link conforming to IEC 61000-4-4 4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4
Resistance to radiated fields	10 V/m 3 conforming to IEC 61000-4-3
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6
Immunity to microbreaks	3 ms for control circuit
Immunity to voltage dips	70 % / 500 ms conforming to IEC 61000-4-11

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.000 cm
Package 1 Width	5.500 cm
Package 1 Length	14.700 cm
Package 1 Weight	1.300 kg
Unit Type of Package 2	S03
Number of Units in Package 2	9
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	12.245 kg
Unit Type of Package 3	P06
Number of Units in Package 3	72
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	110.100 kg

Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	€Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov